

# 6 New Mexico NM MSSA

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**MASTER KEY MATH CONCEPTS**  
**BUILD CONFIDENCE FOR TEST DAY**

**INCLUDES COMPREHENSIVE ANSWER KEY**  
**ALIGNED STATE STANDARDS**

# 6 New Mexico NM-MSSA Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Six complete 30-question Grade 4 practice rounds for NM-MSSA, built around mesa views, bright art patterns, and careful fraction thinking, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, New Mexico Math Explorer!

Six steady rounds on the Land of Enchantment math route

This book gives you six full Grade 4 practice tests for NM-MSSA. Each round uses mesa views, bright art patterns, and careful fraction thinking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## New Mexico Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for New Mexico NM-MSSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Land of Enchantment math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Six tests, 180 questions, and a full NM-MSSA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 4–6	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

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1) Which sum is correct?

A.  $\frac{7}{10} + \frac{10}{100} = \frac{80}{100}$

B.  $\frac{7}{10} + \frac{10}{100} = \frac{17}{110}$

C.  $\frac{7}{10} + \frac{10}{100} = \frac{7}{10}$

D.  $\frac{7}{10} + \frac{10}{100} = \frac{7}{100}$

2) Which is a multiple of  $\frac{2}{8}$ ?

A.  $\frac{4}{8}$

B.  $\frac{3}{8}$

C.  $\frac{5}{8}$

D.  $\frac{1}{8}$

3) Which number comes next in the pattern? 2, 6, 10, 14, 18, —

A. 20

B. 26

C. 24

D. 22

4) A line plot shows leaf lengths in halves of an inch:  $\frac{1}{2}$ ,  $\frac{1}{2}$ , 1,  $\frac{1}{2}$ , 1, 1. How many leaves measured 1 inch?

A. 1

B. 2

C. 3

D. 4

5) Ava drinks  $\frac{1}{4}$  cup of juice 4 times a day. How much juice does she drink altogether?

A.  $\frac{4}{4}$  cup or 1 cup

B.  $\frac{1}{16}$  cup

C.  $\frac{4}{1}$  cup

D.  $\frac{2}{4}$  cup

6) What fraction is equivalent to  $\frac{1}{2}$ ?

A.  $\frac{2}{5}$

B.  $\frac{3}{5}$

C.  $\frac{3}{6}$

D.  $\frac{2}{3}$



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7) A grain of rice weighs  $\frac{1}{12}$  ounce. How much do 10 grains weigh?

- A.  $\frac{1}{120}$  ounce                       C.  $\frac{12}{10}$  ounces  
 B.  $\frac{10}{12}$  ounce                         D.  $\frac{10}{120}$  ounce



8)  $\frac{4}{6}$  sugar                       $\frac{2}{6}$  flour

A cake recipe uses  $\frac{4}{6}$  cup of sugar and  $\frac{2}{6}$  cup of flour. What is the total amount of sugar and flour combined?

- A.  $\frac{6}{6}$                                        C.  $\frac{2}{6}$   
 B.  $\frac{6}{12}$                                      D.  $\frac{3}{6}$

9) Use these two place-value charts to compare:

	100,000s	10,000s	1,000s	100s	10s	1s
Chart 1	1	2	8	3	7	2
Chart 2	1	2	8	4	2	3

Which is true?

- A.  $128,372 > 128,423$                        C.  $128,372 = 128,423$   
 B. Cannot determine                         D.  $128,372 < 128,423$

10) A garden path is  $\frac{10}{12}$  meter long. After rain,  $\frac{4}{12}$  meter washed away. How much remains?

- A.  $\frac{14}{12}$  meters                               C.  $\frac{6}{24}$  meter  
 B.  $\frac{6}{12}$  meter                                  D.  $\frac{4}{12}$  meter

11) A track is divided into 10 equal sections. A runner has completed  $\frac{7}{10}$  of the track. What decimal shows this progress?

A. 0.07

C. 7.0

B. 0.7

D. 0.017

12) How many rays form an angle?



13) Three friends shared a candy bar. Alex ate  $\frac{1}{3}$ , Blake ate  $\frac{2}{5}$ , and Chloe ate  $\frac{1}{4}$ . Who ate the most?

A. Alex

C. Chloe

B. Blake

D. Alex and Blake ate the same

14) A bookstore sells 12 new books per day for 15 days. The store also has 18 older books on a display shelf. Not counting the older books, how many new books did the bookstore sell?

A. 120

C. 200

B. 198

D. 180 books

15) Which figure does **not** have a line of symmetry?

A. Equilateral triangle

C. Scalene triangle

B. Rectangle

D. Isosceles triangle



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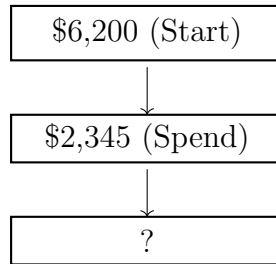
1) Which equation shows  $\frac{11}{12}$  as a sum of two fractions?

A.  $\frac{6}{12} + \frac{5}{12}$

C.  $\frac{8}{12} + \frac{2}{12}$

B.  $\frac{7}{12} + \frac{3}{12}$

D.  $\frac{9}{12} + \frac{1}{12}$



2)

Marcus has \$6,200. He spends \$2,345. How much money does he have left?

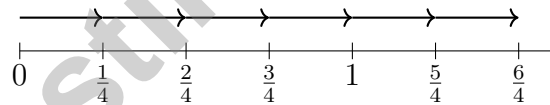
A. \$3,855

C. \$4,055

B. \$3,945

D. \$3,955

3) Use the number line to find  $6 \times \frac{1}{4}$ .



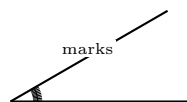
A.  $\frac{1}{4}$

C.  $\frac{6}{24}$

B.  $\frac{6}{4}$  or  $1\frac{1}{2}$

D. 2

4)



This angle is marked from  $0^\circ$  to  $30^\circ$ . How many one-degree angles does the angle contain?

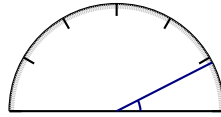
A. 29 one-degree angles

C. 31 one-degree angles

B. 30 one-degree angles

D. 60 one-degree angles

5)



What is the measure of the angle shown?

- A. 25 degrees                       C. 30 degrees  
 B. 27 degrees                       D. 32 degrees
- 6) In the number 7,777, the digit 7 in the thousands place is how many times the value of the digit 7 in the ones place?
- A. 10                                       C. 1,000  
 B. 100                                       D. 10,000
- 7) What is the standard form of  $400,000 + 80,000 + 3,000 + 200 + 0 + 1$ ?
- A. 483,021                               C. 408,301  
 B. 483,210                               D. 483,201
- 8) Two angles together are  $\frac{10}{12}$  of a straight angle. One angle is  $\frac{4}{12}$  of a straight angle. What is the other angle?



Angle 1:  $\frac{4}{12}$

Angle 2: ?  
Total =  $\frac{10}{12}$

- A.  $\frac{6}{12}$                                        C.  $\frac{4}{12}$   
 B.  $\frac{14}{12}$                                        D.  $\frac{6}{24}$



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1) A printing company prints 5 sets of pamphlets. Each set has 48 pages. Another company prints 3 sets with 65 pages each. Which company prints more pages, and by how many?

- A. First company by 15 pages       C. Second company by 15 pages  
 B. Equal pages       D. First company by 45 pages

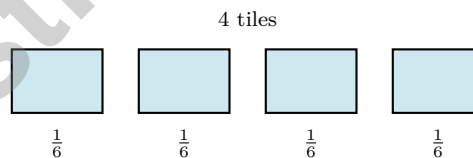
2) Which angle measure is an acute angle?

- A. 95 degrees       C. 135 degrees  
 B. 15 degrees       D. 180 degrees

3) Lena has two ribbons. One is  $3\frac{1}{3}$  meters long and the other is  $1\frac{2}{3}$  meters long. If she ties them together, how long is the combined ribbon?

- A.  $4\frac{1}{3}$  meters       C. 5 meters  
 B.  $4\frac{2}{3}$  meters       D.  $5\frac{1}{3}$  meters

4) Maya lined up 4 unit-fraction tiles. If each tile is  $\frac{1}{6}$ , what is the total?



- A.  $\frac{1}{6}$        C.  $\frac{4}{6}$   
 B.  $\frac{2}{6}$        D.  $\frac{6}{6}$



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5) Ava has read  $\frac{7}{10}$  of her book. She read  $\frac{3}{10}$  on Monday and the rest on Tuesday. How much did she read on Tuesday?

A.  $\frac{2}{10}$

B.  $\frac{4}{10}$

C.  $\frac{5}{10}$

D.  $\frac{10}{10}$

6) Diego draws a rectangle with a length of 6 cm and a width of 4 cm. What is the area of his rectangle?

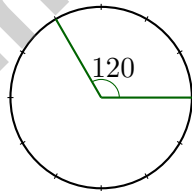
A. 10 sq cm

B. 20 sq cm

C. 24 sq cm

D. 30 sq cm

7) A farmer plants 15 rows of corn. Each row has 43 plants. How many corn plants are planted in total?



8)

An angle measures 120 degrees. How many one-degree angles make this angle?

A. 60 one-degree angles

B. 120 one-degree angles

C. 240 one-degree angles

D. 12 one-degree angles



## Practice Test Answer Keys

**How to use this section with a Grade 4 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice A is correct.** (4.NF.C.5) Convert  $\frac{7}{10}$  to hundredths:  $\frac{7}{10} = \frac{70}{100}$ . Now add:  $\frac{70}{100} + \frac{10}{100} = \frac{80}{100}$ .
- Choice A is correct.** (4.NF.B.4) Since  $\frac{4}{8} = 2 \times \frac{2}{8}$ , it's a multiple of  $\frac{2}{8}$ .
- Choice D is correct.** (4.OA.B.4) First find the rule by looking at the gaps:  $6 - 2 = 4$ ,  $10 - 6 = 4$ ,  $14 - 10 = 4$ ,  $18 - 14 = 4$ . So the rule is "add 4." Apply it once more:  $18 + 4 = 22$ .
- Choice C is correct.** (4.MD.B.4) Count how many leaves measured 1 inch (which is the same as  $\frac{2}{2}$  inch). We find **3** leaves with this length.
- Choice A is correct.** (4.NF.B.4) Ava drinks  $\frac{1}{4}$  cup 4 times, so we calculate  $4 \times \frac{1}{4} = \frac{4 \times 1}{4} = \frac{4}{4} = 1$  cup. The answer is **1** cup.
- Choice C is correct.** (4.NF.A.1) Multiply both top and bottom by 3:  $\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$ . This gives you more pieces, but they still cover the same amount!
- Choice B is correct.** (4.NF.B.4) Ten grains of rice, each weighing  $\frac{1}{12}$  ounce, weigh  $10 \times \frac{1}{12} = \frac{10}{12}$ , which simplifies to  $\frac{5}{6}$  ounce.
- Choice A is correct.** (4.NF.B.3) The cake recipe uses sugar and flour as shown in the picture. Add them with like denominators:  $\frac{4}{6} + \frac{2}{6} = \frac{6}{6}$  cups total.
- Choice D is correct.** (4.NBT.A.2) The first three digits (hundred-thousands, ten-thousands, thousands) match. Hundreds:  $3 < 4$ , so Chart 1 is less ✓
- Choice B is correct.** (4.NF.B.3) The path started at  $\frac{10}{12}$  meter. Rain washed away  $\frac{4}{12}$  meter. What's left:  $10 - 4 = 6$  twelfths, or  $\frac{6}{12}$  meter.
- Choice B is correct.** (4.NF.C.5) Seven tenths of the track is completed. In decimal form, that's  $\frac{7}{10} = 0.7$ .
- The correct answer is 2.** (4.MD.C.5) An angle is formed by **2** rays that share a vertex.
- Choice B is correct.** (4.NF.A.1) Find a common denominator:  $\frac{1}{3} = \frac{20}{60}$ ,  $\frac{2}{5} = \frac{24}{60}$ ,  $\frac{1}{4} = \frac{15}{60}$ . Since  $24 > 20 > 15$ , Blake ate most.
- Choice D is correct.** (4.OA.A.3) Watch out for extra information! The 18 older books are not new sales, so we ignore them. Just multiply:  $12 \text{ books/day} \times 15 \text{ days} = 180$  new books sold.
- Choice C is correct.** (4.G.A.3) A scalene triangle has three different side lengths and three different angles. Since nothing matches on either side, no fold line can make the two halves fit together perfectly. The answer is scalene triangle.
- The correct answer is A, C.** (4.OA.A.1) Multiplicative comparisons use the words "times as many." Choice A (18 is 6 times as many as 3) and choice C (28 is 4 times as many as 7) both fit. Choices B, D, and E use "more" or "less," which are *additive* comparisons—not multiplicative.
- Choice A is correct.** (4.NBT.B.5) Split 22:  $19 \times (20 + 2) = 380 + 38 = 418$ .
- Choice B is correct.** (4.MD.A.1) Since 1 gallon = 4 quarts, divide:  $36 \div 4 = 9$  gallons. The answer is **9** gallons.
- Choice A is correct.** (4.MD.C.7) The crease splits the angle into two parts. Subtract to find the other:  $134^\circ - 67^\circ = 67^\circ$ .
- Choice B is correct.** (4.MD.C.5) The diagram shows two right angles: angle  $a$  is  $90^\circ$  (right to up), and angle  $b$  is  $90^\circ$  (up to left). Together:  $90^\circ + 90^\circ = 180^\circ$ .
- Choice C is correct.** (4.NF.B.4) The fraction  $\frac{7}{9}$  has numerator 7 and denominator 9. This means 7 copies of  $\frac{1}{9}$ . So the missing denominator is 9.
- Choice C is correct.** (4.MD.A.2) Each bottle holds 750 mL. With 2 bottles, multiply:  $750 \times 2 = 1,500$  mL. There are **1,500** milliliters of water.
- Choice A is correct.** (4.NF.B.3) One whole is  $\frac{4}{4}$ , and  $\frac{6}{4}$  has 6 fourths total. Subtract:  $6 - 4 = 2$ , so the mixed number is  $1\frac{2}{4}$  ✓.
- Choice C is correct.** (4.NBT.A.3) We're rounding to the nearest thousand, so check the hundreds digit of each. Option C (40,499): hundreds digit is  $4 < 5$ , rounds DOWN to **40,000**. ✓ Option A (39,250): hundreds digit  $2 < 5$ , rounds DOWN to 39,000. Option B (40,750): hundreds digit  $7 \geq 5$ , rounds UP to 41,000. Option D (40,501): hundreds digit  $5 \geq 5$ , rounds UP to 41,000.



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**A Note From Your Math Friend**

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**Hi, Math Star!**

◇ Wow! You finished 6 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 6 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Friend

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.**

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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Strengthens Critical Thinking & Problem Solving



Encourages Independent Learning



Prepares Students for Test Day Success